**------server : main\_server------**

**服务器型号**

#dmidecode|grep "System Information" -A9|egrep "Manufacturer|Product"

Manufacturer: HP

Product Name: ProLiant DL380 Gen9

**操作系统**

#cat /etc/redhat-release

Red Hat Enterprise Linux Server release 6.5 (Santiago)

**CPU 信息**

#lscpu

Architecture: x86\_64

CPU op-mode(s): 32-bit, 64-bit

Byte Order: Little Endian

CPU(s): 32

On-line CPU(s) list: 0-31

Thread(s) per core: 2

Core(s) per socket: 8

Socket(s): 2

NUMA node(s): 2

Vendor ID: GenuineIntel

CPU family: 6

Model: 63

Stepping: 2

CPU MHz: 2060.869

BogoMIPS: 4793.96

Virtualization: VT-x

L1d cache: 32K

L1i cache: 32K

L2 cache: 256K

L3 cache: 20480K

NUMA node0 CPU(s): 0-7,16-23

NUMA node1 CPU(s): 8-15,24-31

**内存硬件信息**

#dmidecode -t memory

# dmidecode 2.11

SMBIOS 2.8 present.

# SMBIOS implementations newer than version 2.7 are not

# fully supported by this version of dmidecode.

Handle 0x000A, DMI type 16, 23 bytes

Physical Memory Array

Location: System Board Or Motherboard

Use: System Memory

Error Correction Type: Multi-bit ECC

Maximum Capacity: 768 GB

Error Information Handle: Not Provided

Number Of Devices: 12

Handle 0x000B, DMI type 16, 23 bytes

Physical Memory Array

Location: System Board Or Motherboard

Use: System Memory

Error Correction Type: Multi-bit ECC

Maximum Capacity: 768 GB

Error Information Handle: Not Provided

Number Of Devices: 12

Handle 0x000C, DMI type 17, 40 bytes

Memory Device

Array Handle: 0x000A

Error Information Handle: Not Provided

Total Width: 72 bits

Data Width: 64 bits

Size: No Module Installed

Form Factor: DIMM

Set: None

Locator: PROC 1 DIMM 1

Bank Locator: Not Specified

Type: <OUT OF SPEC>

Type Detail: Synchronous

Speed: Unknown

Manufacturer: UNKNOWN

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: NOT AVAILABLE

Rank: Unknown

Configured Clock Speed: Unknown

Handle 0x000D, DMI type 17, 40 bytes

Memory Device

Array Handle: 0x000A

Error Information Handle: Not Provided

Total Width: 72 bits

Data Width: 64 bits

Size: No Module Installed

Form Factor: DIMM

Set: 1

Locator: PROC 1 DIMM 2

Bank Locator: Not Specified

Type: <OUT OF SPEC>

Type Detail: Synchronous

Speed: Unknown

Manufacturer: UNKNOWN

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: NOT AVAILABLE

Rank: Unknown

Configured Clock Speed: Unknown

Handle 0x000E, DMI type 17, 40 bytes

Memory Device

Array Handle: 0x000A

Error Information Handle: Not Provided

Total Width: 72 bits

Data Width: 64 bits

Size: No Module Installed

Form Factor: DIMM

Set: 2

Locator: PROC 1 DIMM 3

Bank Locator: Not Specified

Type: <OUT OF SPEC>

Type Detail: Synchronous

Speed: Unknown

Manufacturer: UNKNOWN

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: NOT AVAILABLE

Rank: Unknown

Configured Clock Speed: Unknown

Handle 0x000F, DMI type 17, 40 bytes

Memory Device

Array Handle: 0x000A

Error Information Handle: Not Provided

Total Width: 72 bits

Data Width: 64 bits

Size: No Module Installed

Form Factor: DIMM

Set: 3

Locator: PROC 1 DIMM 4

Bank Locator: Not Specified

Type: <OUT OF SPEC>

Type Detail: Synchronous

Speed: Unknown

Manufacturer: UNKNOWN

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: NOT AVAILABLE

Rank: Unknown

Configured Clock Speed: Unknown

Handle 0x0010, DMI type 17, 40 bytes

Memory Device

Array Handle: 0x000A

Error Information Handle: Not Provided

Total Width: 72 bits

Data Width: 64 bits

Size: No Module Installed

Form Factor: DIMM

Set: 4

Locator: PROC 1 DIMM 5

Bank Locator: Not Specified

Type: <OUT OF SPEC>

Type Detail: Synchronous

Speed: Unknown

Manufacturer: UNKNOWN

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: NOT AVAILABLE

Rank: Unknown

Configured Clock Speed: Unknown

Handle 0x0011, DMI type 17, 40 bytes

Memory Device

Array Handle: 0x000A

Error Information Handle: Not Provided

Total Width: 72 bits

Data Width: 64 bits

Size: No Module Installed

Form Factor: DIMM

Set: 5

Locator: PROC 1 DIMM 6

Bank Locator: Not Specified

Type: <OUT OF SPEC>

Type Detail: Synchronous

Speed: Unknown

Manufacturer: UNKNOWN

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: NOT AVAILABLE

Rank: Unknown

Configured Clock Speed: Unknown

Handle 0x0012, DMI type 17, 40 bytes

Memory Device

Array Handle: 0x000A

Error Information Handle: Not Provided

Total Width: 72 bits

Data Width: 64 bits

Size: No Module Installed

Form Factor: DIMM

Set: 6

Locator: PROC 1 DIMM 7

Bank Locator: Not Specified

Type: <OUT OF SPEC>

Type Detail: Synchronous

Speed: Unknown

Manufacturer: UNKNOWN

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: NOT AVAILABLE

Rank: Unknown

Configured Clock Speed: Unknown

Handle 0x0013, DMI type 17, 40 bytes

Memory Device

Array Handle: 0x000A

Error Information Handle: Not Provided

Total Width: 72 bits

Data Width: 64 bits

Size: No Module Installed

Form Factor: DIMM

Set: 7

Locator: PROC 1 DIMM 8

Bank Locator: Not Specified

Type: <OUT OF SPEC>

Type Detail: Synchronous

Speed: Unknown

Manufacturer: UNKNOWN

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: NOT AVAILABLE

Rank: Unknown

Configured Clock Speed: Unknown

Handle 0x0014, DMI type 17, 40 bytes

Memory Device

Array Handle: 0x000A

Error Information Handle: Not Provided

Total Width: 72 bits

Data Width: 64 bits

Size: 16384 MB

Form Factor: DIMM

Set: 8

Locator: PROC 1 DIMM 9

Bank Locator: Not Specified

Type: <OUT OF SPEC>

Type Detail: Synchronous Registered (Buffered)

Speed: 2133 MHz

Manufacturer: HP

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: 752369-081

Rank: 2

Configured Clock Speed: 1866 MHz

Handle 0x0015, DMI type 17, 40 bytes

Memory Device

Array Handle: 0x000A

Error Information Handle: Not Provided

Total Width: 72 bits

Data Width: 64 bits

Size: No Module Installed

Form Factor: DIMM

Set: 9

Locator: PROC 1 DIMM 10

Bank Locator: Not Specified

Type: <OUT OF SPEC>

Type Detail: Synchronous

Speed: Unknown

Manufacturer: UNKNOWN

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: NOT AVAILABLE

Rank: Unknown

Configured Clock Speed: Unknown

Handle 0x0016, DMI type 17, 40 bytes

Memory Device

Array Handle: 0x000A

Error Information Handle: Not Provided

Total Width: 72 bits

Data Width: 64 bits

Size: No Module Installed

Form Factor: DIMM

Set: 10

Locator: PROC 1 DIMM 11

Bank Locator: Not Specified

Type: <OUT OF SPEC>

Type Detail: Synchronous

Speed: Unknown

Manufacturer: UNKNOWN

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: NOT AVAILABLE

Rank: Unknown

Configured Clock Speed: Unknown

Handle 0x0017, DMI type 17, 40 bytes

Memory Device

Array Handle: 0x000A

Error Information Handle: Not Provided

Total Width: 72 bits

Data Width: 64 bits

Size: 16384 MB

Form Factor: DIMM

Set: 11

Locator: PROC 1 DIMM 12

Bank Locator: Not Specified

Type: <OUT OF SPEC>

Type Detail: Synchronous Registered (Buffered)

Speed: 2133 MHz

Manufacturer: HP

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: 752369-081

Rank: 2

Configured Clock Speed: 1866 MHz

Handle 0x0018, DMI type 17, 40 bytes

Memory Device

Array Handle: 0x000B

Error Information Handle: Not Provided

Total Width: 72 bits

Data Width: 64 bits

Size: No Module Installed

Form Factor: DIMM

Set: 12

Locator: PROC 2 DIMM 1

Bank Locator: Not Specified

Type: <OUT OF SPEC>

Type Detail: Synchronous

Speed: Unknown

Manufacturer: UNKNOWN

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: NOT AVAILABLE

Rank: Unknown

Configured Clock Speed: Unknown

Handle 0x0019, DMI type 17, 40 bytes

Memory Device

Array Handle: 0x000B

Error Information Handle: Not Provided

Total Width: 72 bits

Data Width: 64 bits

Size: No Module Installed

Form Factor: DIMM

Set: 13

Locator: PROC 2 DIMM 2

Bank Locator: Not Specified

Type: <OUT OF SPEC>

Type Detail: Synchronous

Speed: Unknown

Manufacturer: UNKNOWN

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: NOT AVAILABLE

Rank: Unknown

Configured Clock Speed: Unknown

Handle 0x001A, DMI type 17, 40 bytes

Memory Device

Array Handle: 0x000B

Error Information Handle: Not Provided

Total Width: 72 bits

Data Width: 64 bits

Size: No Module Installed

Form Factor: DIMM

Set: 14

Locator: PROC 2 DIMM 3

Bank Locator: Not Specified

Type: <OUT OF SPEC>

Type Detail: Synchronous

Speed: Unknown

Manufacturer: UNKNOWN

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: NOT AVAILABLE

Rank: Unknown

Configured Clock Speed: Unknown

Handle 0x001B, DMI type 17, 40 bytes

Memory Device

Array Handle: 0x000B

Error Information Handle: Not Provided

Total Width: 72 bits

Data Width: 64 bits

Size: No Module Installed

Form Factor: DIMM

Set: 15

Locator: PROC 2 DIMM 4

Bank Locator: Not Specified

Type: <OUT OF SPEC>

Type Detail: Synchronous

Speed: Unknown

Manufacturer: UNKNOWN

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: NOT AVAILABLE

Rank: Unknown

Configured Clock Speed: Unknown

Handle 0x001C, DMI type 17, 40 bytes

Memory Device

Array Handle: 0x000B

Error Information Handle: Not Provided

Total Width: 72 bits

Data Width: 64 bits

Size: No Module Installed

Form Factor: DIMM

Set: 16

Locator: PROC 2 DIMM 5

Bank Locator: Not Specified

Type: <OUT OF SPEC>

Type Detail: Synchronous

Speed: Unknown

Manufacturer: UNKNOWN

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: NOT AVAILABLE

Rank: Unknown

Configured Clock Speed: Unknown

Handle 0x001D, DMI type 17, 40 bytes

Memory Device

Array Handle: 0x000B

Error Information Handle: Not Provided

Total Width: 72 bits

Data Width: 64 bits

Size: No Module Installed

Form Factor: DIMM

Set: 17

Locator: PROC 2 DIMM 6

Bank Locator: Not Specified

Type: <OUT OF SPEC>

Type Detail: Synchronous

Speed: Unknown

Manufacturer: UNKNOWN

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: NOT AVAILABLE

Rank: Unknown

Configured Clock Speed: Unknown

Handle 0x001E, DMI type 17, 40 bytes

Memory Device

Array Handle: 0x000B

Error Information Handle: Not Provided

Total Width: 72 bits

Data Width: 64 bits

Size: No Module Installed

Form Factor: DIMM

Set: 18

Locator: PROC 2 DIMM 7

Bank Locator: Not Specified

Type: <OUT OF SPEC>

Type Detail: Synchronous

Speed: Unknown

Manufacturer: UNKNOWN

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: NOT AVAILABLE

Rank: Unknown

Configured Clock Speed: Unknown

Handle 0x001F, DMI type 17, 40 bytes

Memory Device

Array Handle: 0x000B

Error Information Handle: Not Provided

Total Width: 72 bits

Data Width: 64 bits

Size: No Module Installed

Form Factor: DIMM

Set: 19

Locator: PROC 2 DIMM 8

Bank Locator: Not Specified

Type: <OUT OF SPEC>

Type Detail: Synchronous

Speed: Unknown

Manufacturer: UNKNOWN

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: NOT AVAILABLE

Rank: Unknown

Configured Clock Speed: Unknown

Handle 0x0020, DMI type 17, 40 bytes

Memory Device

Array Handle: 0x000B

Error Information Handle: Not Provided

Total Width: 72 bits

Data Width: 64 bits

Size: 16384 MB

Form Factor: DIMM

Set: 20

Locator: PROC 2 DIMM 9

Bank Locator: Not Specified

Type: <OUT OF SPEC>

Type Detail: Synchronous Registered (Buffered)

Speed: 2133 MHz

Manufacturer: HP

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: 752369-081

Rank: 2

Configured Clock Speed: 1866 MHz

Handle 0x0021, DMI type 17, 40 bytes

Memory Device

Array Handle: 0x000B

Error Information Handle: Not Provided

Total Width: 72 bits

Data Width: 64 bits

Size: No Module Installed

Form Factor: DIMM

Set: 21

Locator: PROC 2 DIMM 10

Bank Locator: Not Specified

Type: <OUT OF SPEC>

Type Detail: Synchronous

Speed: Unknown

Manufacturer: UNKNOWN

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: NOT AVAILABLE

Rank: Unknown

Configured Clock Speed: Unknown

Handle 0x0022, DMI type 17, 40 bytes

Memory Device

Array Handle: 0x000B

Error Information Handle: Not Provided

Total Width: 72 bits

Data Width: 64 bits

Size: No Module Installed

Form Factor: DIMM

Set: 22

Locator: PROC 2 DIMM 11

Bank Locator: Not Specified

Type: <OUT OF SPEC>

Type Detail: Synchronous

Speed: Unknown

Manufacturer: UNKNOWN

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: NOT AVAILABLE

Rank: Unknown

Configured Clock Speed: Unknown

Handle 0x0023, DMI type 17, 40 bytes

Memory Device

Array Handle: 0x000B

Error Information Handle: Not Provided

Total Width: 72 bits

Data Width: 64 bits

Size: 16384 MB

Form Factor: DIMM

Set: 23

Locator: PROC 2 DIMM 12

Bank Locator: Not Specified

Type: <OUT OF SPEC>

Type Detail: Synchronous Registered (Buffered)

Speed: 2133 MHz

Manufacturer: HP

Serial Number: Not Specified

Asset Tag: Not Specified

Part Number: 752369-081

Rank: 2

Configured Clock Speed: 1866 MHz

**内存使用信息**

#cat /proc/meminfo

MemTotal: 65844260 kB

MemFree: 38459540 kB

Buffers: 453864 kB

Cached: 23138808 kB

SwapCached: 2208 kB

Active: 8692344 kB

Inactive: 17268640 kB

Active(anon): 1446056 kB

Inactive(anon): 926100 kB

Active(file): 7246288 kB

Inactive(file): 16342540 kB

Unevictable: 0 kB

Mlocked: 0 kB

SwapTotal: 33554424 kB

SwapFree: 33452048 kB

Dirty: 1508 kB

Writeback: 0 kB

AnonPages: 2367420 kB

Mapped: 716756 kB

Shmem: 3792 kB

Slab: 892152 kB

SReclaimable: 766668 kB

SUnreclaim: 125484 kB

KernelStack: 12768 kB

PageTables: 56108 kB

NFS\_Unstable: 0 kB

Bounce: 0 kB

WritebackTmp: 0 kB

CommitLimit: 66476552 kB

Committed\_AS: 11199556 kB

VmallocTotal: 34359738367 kB

VmallocUsed: 391028 kB

VmallocChunk: 34323837336 kB

HardwareCorrupted: 0 kB

AnonHugePages: 1495040 kB

HugePages\_Total: 0

HugePages\_Free: 0

HugePages\_Rsvd: 0

HugePages\_Surp: 0

Hugepagesize: 2048 kB

DirectMap4k: 6144 kB

DirectMap2M: 2017280 kB

DirectMap1G: 65011712 kB

**内存插槽数及各个大小**

# dmidecode|grep -A5 "Memory Device"|grep Size|grep -v Range

Size: No Module Installed

Size: No Module Installed

Size: No Module Installed

Size: No Module Installed

Size: No Module Installed

Size: No Module Installed

Size: No Module Installed

Size: No Module Installed

Size: 16384 MB

Size: No Module Installed

Size: No Module Installed

Size: 16384 MB

Size: No Module Installed

Size: No Module Installed

Size: No Module Installed

Size: No Module Installed

Size: No Module Installed

Size: No Module Installed

Size: No Module Installed

Size: No Module Installed

Size: 16384 MB

Size: No Module Installed

Size: No Module Installed

Size: 16384 MB

**硬盘信息**

#fdisk -l

Disk /dev/sdb: 2700.5 GB, 2700454158336 bytes

255 heads, 63 sectors/track, 328311 cylinders

Units = cylinders of 16065 \* 512 = 8225280 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 262144 bytes / 786432 bytes

Disk identifier: 0x00000000

Device Boot Start End Blocks Id System

/dev/sdb1 1 267350 2147483647+ ee GPT

Partition 1 does not start on physical sector boundary.

Disk /dev/sda: 300.0 GB, 299966445568 bytes

255 heads, 63 sectors/track, 36468 cylinders

Units = cylinders of 16065 \* 512 = 8225280 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 262144 bytes / 262144 bytes

Disk identifier: 0x0008f30f

Device Boot Start End Blocks Id System

/dev/sda1 \* 1 64 512000 83 Linux

Partition 1 does not end on cylinder boundary.

/dev/sda2 64 36469 292422656 8e Linux LVM

Disk /dev/sdc: 2254.9 GB, 2254857830400 bytes

255 heads, 63 sectors/track, 274137 cylinders

Units = cylinders of 16065 \* 512 = 8225280 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk identifier: 0x00000000

Disk /dev/sde: 2254.9 GB, 2254857830400 bytes

255 heads, 63 sectors/track, 274137 cylinders

Units = cylinders of 16065 \* 512 = 8225280 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk identifier: 0x00000000

Disk /dev/sdd: 2254.9 GB, 2254857830400 bytes

255 heads, 63 sectors/track, 274137 cylinders

Units = cylinders of 16065 \* 512 = 8225280 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk identifier: 0x00000000

Disk /dev/mapper/vg00-swapvol: 34.4 GB, 34359738368 bytes

255 heads, 63 sectors/track, 4177 cylinders

Units = cylinders of 16065 \* 512 = 8225280 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 262144 bytes / 262144 bytes

Disk identifier: 0x00000000

Disk /dev/mapper/vg00-rootvol: 107.4 GB, 107374182400 bytes

255 heads, 63 sectors/track, 13054 cylinders

Units = cylinders of 16065 \* 512 = 8225280 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 262144 bytes / 262144 bytes

Disk identifier: 0x00000000

Disk /dev/sdf: 2254.9 GB, 2254857830400 bytes

255 heads, 63 sectors/track, 274137 cylinders

Units = cylinders of 16065 \* 512 = 8225280 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk identifier: 0x00000000

Disk /dev/mapper/vg01-data01vol\_m1: 2199.0 GB, 2199019061248 bytes

255 heads, 63 sectors/track, 267348 cylinders

Units = cylinders of 16065 \* 512 = 8225280 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 262144 bytes / 786432 bytes

Disk identifier: 0x00000000

Disk /dev/mapper/vg00-varvol: 21.5 GB, 21474836480 bytes

255 heads, 63 sectors/track, 2610 cylinders

Units = cylinders of 16065 \* 512 = 8225280 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 262144 bytes / 262144 bytes

Disk identifier: 0x00000000

Disk /dev/mapper/vg00-homevol: 2147 MB, 2147483648 bytes

255 heads, 63 sectors/track, 261 cylinders

Units = cylinders of 16065 \* 512 = 8225280 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 262144 bytes / 262144 bytes

Disk identifier: 0x00000000

Disk /dev/mapper/vg00-crashvol: 34.4 GB, 34359738368 bytes

255 heads, 63 sectors/track, 4177 cylinders

Units = cylinders of 16065 \* 512 = 8225280 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 262144 bytes / 262144 bytes

Disk identifier: 0x00000000

Disk /dev/mapper/vg00-tmpvol: 10.7 GB, 10737418240 bytes

255 heads, 63 sectors/track, 1305 cylinders

Units = cylinders of 16065 \* 512 = 8225280 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 262144 bytes / 262144 bytes

Disk identifier: 0x00000000

Disk /dev/emcpowerb: 2254.9 GB, 2254857830400 bytes

255 heads, 63 sectors/track, 274137 cylinders

Units = cylinders of 16065 \* 512 = 8225280 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk identifier: 0x00000000

Disk /dev/mapper/vg01-data01vol: 2199.0 GB, 2199019061248 bytes

255 heads, 63 sectors/track, 267348 cylinders

Units = cylinders of 16065 \* 512 = 8225280 bytes

Sector size (logical/physical): 512 bytes / 512 bytes

I/O size (minimum/optimal): 512 bytes / 512 bytes

Disk identifier: 0x00000000